

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,765,497 B2
APPLICATION NO. : 10/558842
DATED : July 27, 2010
INVENTOR(S) : Chung-Kuan Cheng and Zhengyong Zhu

Page 1 of 5

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 9, please delete "al," and insert -- al., --, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 12, please delete "H.a nd" and insert -- H. and --, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 24, please delete "Of" and insert -- of --, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 26, please delete "Of" and insert -- of --, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 31, please delete "2001. ICCAD" and insert -- 2001, ICCAD --, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 38, please delete "1989." and insert -- 1989, --, therefor.

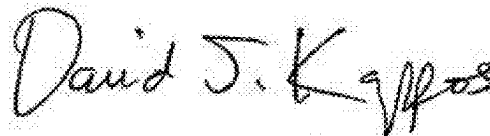
On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 47, please delete "Methofs" and insert -- Methods --, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 8, please delete "2000." and insert -- 2000, --, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 11, please delete "Mathemactics,vol." and insert -- Mathematics, vol. --, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 29, please delete "multigrad" and insert -- multigrid --, therefor.

Signed and Sealed this
Third Day of May, 2011

A handwritten signature in black ink, reading "David J. Kappos". The signature is written in a cursive, flowing style with a large initial "D".

David J. Kappos
Director of the United States Patent and Trademark Office

CERTIFICATE OF CORRECTION (continued)

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On Page 2, in Field (56), under “OTHER PUBLICATIONS”, in Column 2, Line 32, please delete “On” and insert -- on --, therefor.

On Page 2, in Field (56), under “OTHER PUBLICATIONS”, in Column 2, Line 51, please delete “al,” and insert -- al., --, therefor.

On Page 2, in Field (56), under “OTHER PUBLICATIONS”, in Column 2, Line 61, please delete “al,” and insert -- al., --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 1, Line 3, please delete “1995.” and insert -- 1995, --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 1, Line 6, please delete “2000.” and insert -- 2000, --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 1, Line 8, please delete “457-460.” and insert -- 457-460, --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 1, Line 17, please delete “al,” and insert -- al., --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 1, Line 21, please delete “al,” and insert -- al., --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 1, Line 23, please delete “1995.” and insert -- 1995, --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 1, Line 26, please delete “design.” and insert -- design, --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 1, Line 33, please delete “Exhibition.” and insert -- Exhibition, --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 1, Line 41, please delete “2003.” and insert -- 2003, --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 1, Line 47, please delete “879-892.” and insert -- 879-892, --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 1, Line 57, please delete “30-330.” and insert -- 30-330, --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 1, Line 60, please delete “58-65.” and insert -- 58-65, --, therefor.

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On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 2, Line 7, please delete “1992.” and insert -- 1992, --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 2, Line 10, please delete “668-684.” and insert -- 668-684, --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 2, Line 22, please delete “1983.” and insert -- 1983, --, therefor.

On Page 3, in Field (56), under “OTHER PUBLICATIONS”, in Column 2, Line 25, please delete “Pages).” and insert -- Pages), --, therefor.

In Column 1, Line 23, please delete “Kirchoff’s” and insert -- Kirchhoff’s --, therefor.

In Column 4, Line 13, please delete “A1” and insert -- A^1 --, therefor.

In Column 4, Line 15, please delete “A0” and insert -- A^0 --, therefor.

In Column 4, Line 15, please delete “A2” and insert -- A^2 --, therefor.

In Column 4, Line 17, please delete “A1” and insert -- A^1 --, therefor.

In Column 4, Line 19, please delete “A0” and insert -- A^0 --, therefor.

In Column 4, Line 19, please delete “A1” and insert -- A^1 --, therefor.

In Column 4, Line 19, please delete “A2” and insert -- A^2 --, therefor.

In Column 4, Line 24, please delete “A0 and A1” and insert -- A^0 and A^1 --, therefor.

In Column 4, Line 26, please delete “A2” and insert -- A^2 --, therefor.

In Column 4, Line 29, please delete “ $A^0x^0=b^0$ ” and insert -- $A^0x^0=b^0$ --, therefor.

In Column 4, Line 31, please delete “ $A^1x^1=b^1$ ” and insert -- $A^1x^1=b^1$ --, therefor.

In Column 4, Line 33, please delete “ $A^2x^2=b^2$ ” and insert -- $A^2x^2=b^2$ --, therefor.

In Column 4, Line 35, please delete “A0 to A1” and insert -- A^0 to A^1 --, therefor.

In Column 4, Line 36, please delete “A2” and insert -- A^2 --, therefor.

In Column 4, Line 37, please delete “A2 to A1” and insert -- A^2 to A^1 --, therefor.

In Column 4, Line 37, please delete “A0” and insert -- A^0 --, therefor.

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In Column 4, Line 41, please delete “ $A_0 \rightarrow A_1 \rightarrow A_2 \rightarrow A_1 \rightarrow A_0$ ” and insert -- $A^0 \rightarrow A^1 \rightarrow A^2 \rightarrow A^1 \rightarrow A^0$ --, therefor.

In Column 4, Line 44, please delete “ $A_0 x_0 = b_0$ ” and insert -- $A^0 x^0 = b^0$ --, therefor.

In Column 4, Line 46, please delete “ $A_0 x = b$ ” and insert -- $A^0 x = b$ --, therefor.

In Column 4, Line 48, please delete “ A_0 ” and insert -- A^0 --, therefor.

In Column 4, Line 50, please delete “ (A_1) ” and insert -- (A^1) --, therefor.

In Column 4, Line 51, after “in”, please delete “ A_1 ” and insert -- A^1 --, therefor.

In Column 4, Line 51, please delete “ A_0 ” and insert -- A^0 --, therefor.

In Column 4, Line 51, after “on”, please delete “ A_1 ” and insert -- A^1 --, therefor.

In Column 4, Line 52, please delete “ A_0 ” and insert -- A^0 --, therefor.

In Column 4, Line 53, please delete “ (A_2) based on A_1 ” and insert -- (A^2) based on A^1 --, therefor.

In Column 4, Line 54, please delete “ A_1 ” and insert -- A^1 --, therefor.

In Column 4, Line 55, please delete “ A_2 is mapped from nodes 3 and 4 on A_1 ” and insert -- A^2 is mapped from nodes 3 and 4 on A^1 --, therefor.

In Column 4, Line 56, please delete “(e.g., A_1)” and insert -- (e.g., A^1) --, therefor.

In Column 4, Line 57, please delete “(e.g., A_2)” and insert -- (e.g., A^2) --, therefor.

In Column 4, Line 58, please delete “(e.g., A_1)” and insert -- (e.g., A^1) --, therefor.

In Column 4, Line 58, please delete “(e.g., A_0)” and insert -- (e.g., A^0) --, therefor.

In Column 4, Lines 62-63, please delete “ $A_0 x_0$ and b_0 for A_0 , $A_1 x_1$ and b_1 for A_1 , or $A_2 x_2$ and b_2 for A_2 ” and insert -- $A^0 x^0$ and b^0 for A^0 , $A^1 x^1$ and b^1 for A^1 , or $A^2 x^2$ and b^2 for A^2 --, therefor.

In Column 5, Line 11, please delete “ I_n^{2h} ” and insert -- I_h^{2h} --, therefor.

In Column 5, Line 12, please delete “ I_{2b}^h ” and insert -- I_{2h}^h --, therefor.

In Column 9, Line 5, please delete “V1” and insert -- V^1 --, therefor.

$$- \begin{bmatrix} G_{11}G_{13} \\ G_{21}G_{33} \\ A_{13}A_{12} \end{bmatrix}$$

In Column 9, Lines 10-13, in equation “(4.1)”, please delete “

$$- \begin{bmatrix} G_{11}G_{12} \\ G_{21}G_{22} \\ A_{11}A_{12} \end{bmatrix} \text{ --, therefor.}$$

In Column 9, Line 55, please delete “A1” and insert -- A^1 --, therefor.

In Column 9, Line 56, please delete “A2” and insert -- A^2 --, therefor.

In Column 9, Line 57, please delete “A0” and insert -- A^0 --, therefor.

In Column 9, Line 58, after “coarse nodes.”, please delete “Coarse nodes”.

In Column 10, Line 61, please delete “120 and 120” and insert -- 120 and 130 --, therefor.

In Column 12, Line 51, in claim 2, please delete “1” and insert -- Claim 1 --, therefor.